



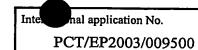


INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference K 59 885/7ch	FOR FURTHER ACTION		cation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/n	nonth/year)	Priority date (day/month/year)
PCT/EP2003/009500	27 August 2003 (27.0	8.2003)	28 August 2002 (28.08.2002)
International Patent Classification (IPC) or n G06K 19/077	ational classification and IPC		
Applicant	GIESECKE & DEVRIEN	NT GMBH	
This international preliminary exam and is transmitted to the applicant ac		by this Intern	national Preliminary Examining Authority
2. This REPORT consists of a total of	5 sheets, including	ng this cover s	iheet.
amended and are the basis fo	ied by ANNEXES, i.e., sheets or or this report and/or sheets contains Administrative Instructions und	ning rectifica	on, claims and/or drawings which have been ations made before this Authority (see Rule
These annexes consist of a to	otal of sheets.		
3. This report contains indications rela	iting to the following items:		
I Basis of the report			
II Priority			
III Non-establishment	of opinion with regard to novelty	y, inventive st	ep and industrial applicability
IV Lack of unity of inv	vention		
		to novelty, in	eventive step or industrial applicability;
VI Certain documents	cited		
VII Certain defects in the	he international application		
	s on the international application	n	
Date of submission of the demand	Date o	f completion	of this report
12 March 2004 (12.03		_	August 2004 (26.08.2004)
Name and mailing address of the IPEA/EP	Autho	rized officer	
Facsimile No.	Teleph	ione No.	





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1.	With	regard t	o the elements of the international application:*	
		the inte	emational application as originally filed	1
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		pages	, filed with the demand	
2.	me n	the lan	o the language, all the elements marked above were available or furnished to this Authority in the language in which all application was filed, unless otherwise indicated under this item. Its were available or furnished to this Authority in the following language which is guage of a translation furnished for the purposes of international search (under Rule 23.1(b)). In guage of publication of the international application (under Rule 48.3(b)). In guage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and	:h
3.	With preli	mmary e	to any nucleotide and/or amino acid sequence disclosed in the international application, the international xamination was carried out on the basis of the sequence listing: ned in the international application in written form.	1
	Ш	filed to	gether with the international application in computer readable form.	
	닏	furnish	ed subsequently to this Authority in written form.	
	\sqcup	furnish	ed subsequently to this Authority in computer readable form.	
		The st	atement that the subsequently furnished written sequence listing does not go beyond the disclosure in the tional application as filed has been furnished.	8
	Ш	The st been fi	atement that the information recorded in computer readable form is identical to the written sequence listing has	s
4.		The an	nendments have resulted in the cancellation of:	
		\square	the description, pages	
			the claims, Nos.	
			the drawings, sheets/fig	
5.		This replaced beyond	port has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**)
	and 7	is report 70.17).	sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to t as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16	o 6
**	Any r	replacem	ent sheet containing such amendments must be referred to under item 1 and annexed to this report.	

INTERNATIONAL PRESIMINARY EXAMINATION REPORT

Internal application No.
PCT/EP 03/09500

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-5	YES
	Claims	6-10	NO
Industrial applicability (LA	c) Claims	1-10	YES
	Claims		NO

- 2. Citations and explanations
 - 1. Reference is made to the following documents:
 - D1: US-A-4 876 441 (BITO HIROYASU et al.), 24 October 1989 (1989-10-24)
 - D2: DE 199 54 841 A (SIEMENS AG), 17 May 2001 (2001-05-17)
 - D3: DE 199 63 165 C (GIESECKE & DEVRIENT GMBH), 8 March 2001 (2001-03-08)
 - D4: US-A-4 795 895 (HARA KAZUYA et al.), 3 January 1989 (1989-01-03)
 - D5: US 2002/020491 A1 (LARSON GARY R et al.), 21 February 2002 (2002-02-21)
 - 2. The cited prior art contains nothing to suggest a method for fitting a display in a data carrier card, wherein a reflective layer is first applied to a recess in the card and a display is then mounted which operates in conjunction with the reflective layer as a reflective display. Method claims 1 to 5 therefore meet the requirements of novelty and inventive step (PCT Article 33(2) and (3)). The invention is clearly industrially applicable.
 - 3. Independent device claim 6 relates to a portable data carrier with a display mounted in a recess. The specification that a reflective layer is applied to the base of the recess covers not only cases in which the reflective layer is created separately from the display but also cases involving the

INTERNATIONAL PRED INTERNATION REPORT



fitting of a display module that has a reflective layer applied to its underside. Document D1 describes the fitting of a display in a data carrier card (credit card with computer; see figures 9 and 10 and the description). Since LCD displays in this type of application are normally always reflective, a person skilled in the art would assume that the display 160 in figures 9 and 10 had a reflective layer on its underside, or would at least consider using such a display. Thus the act of bonding such a display in place automatically applies a reflective layer to the base of the recess (with an intermediate layer). Moreover, figure 10 in D1 shows contact areas in the recess formed by conductors (161), which contact the contact areas on the display. The contact areas on the display face the base of the recess (see figure 10 in conjunction with figure 9). A person skilled in the art working from D1 would thus arrive at the subject matter of claim 6 without having to exercise any inventive skill. The same applies to independent method claim 10, in which the reflective layer is specifically stated to be already on the display. Attention is also drawn to document D2, which also describes the fitting of an LCD display with downward-facing contact areas (see figure 1).

Dependent claims 7 to 9 do not add any features that might establish an inventive step. The multiple-level design of the display and recess are known from D1 and D2, and the filling of gaps is known from document D3 (see the top of column 6). The use of anisotropically conductive adhesives for contacting electronic components is also known from the prior art (see the abstracts of documents D4 and D5).